

AMENDMENTS TO THE CLAIMS

Claims 1-31 (Cancelled)

32. (New) A mat for decreasing musculoskeletal fatigue in humans during prolonged static postural stress comprising:

a pair of bubble layers of an air bubble shaped closed cellular material, each said bubble layer having a flat side and a bubble side;

an intermediate layer selected from a group of materials consisting of closed cellular polyethylene foam material and closed cellular polypropylene foam material wherein said bubble sides of said bubble layers are positioned to face opposite sides of said intermediate layer;

a base layer including a low-tack adhesive bottom surface; and

a cover layer of anti-static closed cellular polypropylene foam material wherein said bubble layers and said intermediate layer are positioned between said base layer and said cover layer.

33. (New) The mat according to Claim 32 wherein said bubble layers are formed from an anti-static air bubble shaped closed cellular material.

34. (New) The mat according to Claim 32 wherein said base layer comprises a polyethylene carrier sheet having an upper surface and a lower surface and said low-tack adhesive is carried on said lower surface of said carrier sheet.

35. (New) The mat according to Claim 34 including a removable liner releasably attached to said low-tack adhesive.

36. (New) The mat according to Claim 32 wherein said bubble layers, said intermediate layer, said base layer and said cover layer are adhered together by a laminating adhesive.

37. (New) The mat according to Claim 32 wherein said bubble layers and said intermediate layer are dimensioned to provide the mat with a truncated pyramidal shape having a beveled perimeter.

38. (New) The mat according to Claim 32 wherein said bubble shaped material has less than a 10% thickness loss based on a 0.5 pounds per square inch loading over 15 days utilizing a static test method of 10" x 10" material samples.

39. (New) The mat according to Claim 32 wherein said closed cellular polyethylene foam material of said intermediate layer has a density in a range of 1.7 to 2.2 pounds per cubic foot.

40. (New) The mat according to Claim 32 wherein said polypropylene closed foam material of said cover layer has a density in a range of 0.5 to 0.7 pounds per cubic foot.

41. (New) A mat for decreasing musculoskeletal fatigue in humans during prolonged static postural stress comprising:

a pair of bubble layers of an air bubble shaped closed cellular material, each said bubble layer having a flat side and a bubble side;
an intermediate layer of a closed cellular polyethylene foam material wherein said bubble sides of said bubble layers are positioned to face opposite sides of said intermediate layer, said closed cellular polyethylene foam material having a density in a range of 1.7 to 2.2 pounds per cubic foot;
a base layer including a low-tack adhesive bottom surface; and
a cover layer of anti-static closed cellular polypropylene foam material having a density in a range of 0.5 to 0.7 pounds per cubic foot wherein said bubble layers and said intermediate layer are positioned between said base layer and said cover layer.

42. (New) The mat according to Claim 41 wherein said bubble layers are formed from an anti-static air bubble shaped closed cellular material.

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43. (New) The mat according to Claim 41 wherein said base layer comprises a polyethylene carrier sheet having an upper surface and a lower surface and said low-tack adhesive is carried on said lower surface of said carrier sheet.

44. (New) The mat according to Claim 43 including a removable liner releasably attached to said low-tack adhesive.

45. (New) The mat according to Claim 41 wherein said bubble layers, said intermediate layer, said base layer and said cover layer are adhered together by a laminating adhesive.

46. (New) The mat according to Claim 41 wherein said bubble layers and said intermediate layer are dimensioned to provide the mat with a beveled perimeter.

47. (New) A mat for decreasing musculoskeletal fatigue in humans during prolonged static postural stress comprising:

a pair of bubble layers each having a flat side and a bubble side and being formed from an anti-static air bubble shaped closed cellular material;

an intermediate layer selected from a group of materials consisting of closed cellular polyethylene foam material and closed cellular polypropylene foam material wherein said bubble sides of said bubble layers are positioned to face opposite sides of said intermediate layer;

a base layer of a polyethylene carrier sheet having an upper surface and a lower surface and a low-tack adhesive carried on said lower surface;

a removable liner releasably attached to said low-tack adhesive;

a cover layer of anti-static closed cellular polypropylene foam material wherein said bubble layers and said intermediate layer are positioned between said base layer and said cover layer; and

a laminating adhesive adhering said bubble layers, said intermediate layer, said base layer and said cover layer together.

48. (New) The mat according to Claim 47 wherein said bubble layers and said intermediate layer are dimensioned to provide the mat with a truncated pyramidal shape having a beveled perimeter.

49. (New) The mat according to Claim 47 wherein said bubble shaped material has less than a 10% thickness loss based on a 0.5 pounds per square inch loading over 15 days utilizing a static test method of 10" x 10" material samples, said closed cellular polyethylene foam material of said intermediate layer has a density in a range of 1.7 to 2.2 pounds per cubic foot, and said polypropylene closed foam material of said cover layer has a density in a range of 0.5 to 0.7 pounds per cubic foot.